

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
12 May 2005 (12.05.2005)

PCT

(10) International Publication Number
WO 2005/041753 A2

- (51) International Patent Classification⁷: **A61B**
- (21) International Application Number:
PCT/US2004/034864
- (22) International Filing Date: 20 October 2004 (20.10.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/512,657 20 October 2003 (20.10.2003) US
- (71) Applicant (for all designated States except US): **JOHNS HOPKINS UNIVERSITY [US/US]**; 3400 North Charles Street, Baltimore, MD 21218 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **BERGER, Ronald, D.** [US/US]; 3101 Northbrook Road, Baltimore, MD 21208 (US).
- (74) Agents: **DALEY, William, J. et al.**; Edwards & Angell, LLP, P.O. Box 55874, Boston, MA 02205 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



WO 2005/041753 A2

(54) Title: CATHETER AND METHOD FOR ABLATION OF ATRIAL TISSUE

(57) Abstract: Featured is a catheter device for ablating tissue that includes an elongated body member having a distal portion and a deflection mechanism operably coupled to the distal portion so as to cause the distal portion to deflect with respect to a longitudinal axis of the elongated body member. Such a catheter device also includes a guide member and a guiding mechanism that is coupled to the elongated body member and is configured so as to guide the guide member. The guiding mechanism includes an exit portion from which the guide member exits during deployment. The exit portion is disposed with respect to the distal portion end so the distal portion deflects from and with respect to the guide member as well as rotating about the guide member. Also featured are systems and methods related thereto.